

DESIGN REPORT
State Project # 160-145
INTERSTATE 84 PAVEMENT PRESERVATION
IN WILLINGTON, ASHFORD AND UNION

Town: Willington, Ashford and Union

Road: Interstate 84

Construction District Nos.: 1 and 2 **Final Maintenance Responsibility:** State of Connecticut

Project Location: This project is located on Interstate 84 from Willington to Union. This portion of roadway was chosen by the Department to be included as part of the 2015 Pavement Preservation Project List. The Eastbound project limits extend from mile point 85.56 (Interstate 84 overpass over Route 32 River Road) to mile point 97.87 (Union, CT/ Sturbridge, MA border). The Westbound project limits extend from mile point 86.44 in the vicinity of Hancock Road to mile point 93.46 (Overpass Route 190 over Interstate 84).

Project Description: The Department's Office of Pavement Management has recommended four different treatments to address the varying existing pavement conditions. The first involves fine milling 3.0" of the existing pavement followed by the placement of 2 - 3/8" PMA S0.5 with 5/8" Ultra-Thin Bonded HMA as the final wearing surface. This treatment will be used for the right shoulder and right travel lane in the eastbound direction and for the right shoulder only of the westbound direction. Note that the placement of the 2 - 3/8" PMA S0.5 shall be completed the same night as the milling operation.

The second treatment consists of micro milling 5/8" and overlaying with 5/8" Ultra-Thin Bonded HMA. This treatment will be used for the center lane, left lane and left shoulder in the eastbound direction and all three travel lanes and the left shoulder in the westbound direction.

The third treatment recommended will be a special treatment section used for approximately 2 miles in the eastbound direction. This section will consist of micro milling 1" and overlaying with 1" Thin Friction Wearing Course (Type 1) for the center lane, left lane and left shoulder and 1" Thin Friction Wearing Course (Type 1) on 2" PMA S0.5 in the right lane and right shoulder. This treatment will be used to further document the Thin Friction Wearing Course performance.

All ramps within the project limits will receive the fourth recommended treatment consisting of fine milling 2" of the existing pavement with a 2" lift of PMA S 0.5 curb to curb.

Rights of Way: N/A

Salvage: None

Public Utilities: None

Reimbursable Agreements: None

Permits: N/A